

 Φ_I^{\bullet}

FIG. 2

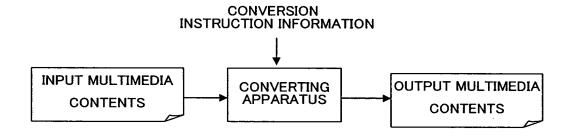


FIG. 3(A)

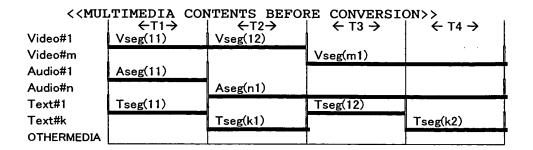


FIG. 3(B)

<<SELECTED MEDIA CONSTITUTING MULTIMEDIA CONTENTS AFTER CONVERSION>>

Video	←T1' → Vseg(11)'	←T3' → Vseg(m1)'	
Text	Tseg(11)	Tseg(12)	Tseg(k2)
	← T1 →	← T3 →	← T4 →

FIG. 3(C)

<<ASYNCHRONOUS CONVERTING METHOD>> [METHOD 1-1] [METHOD 1-2] [METHOD 1-3]

Video	←T1' → Vseg(11)'	←T3′ → Vseg(m1)′				
Text	Tseg(11)		Tseg(12)	Tseg(k2)	BLANK	
	+	T1' →	← T3′ →	← T4' →		

FIG. 3(D)

<<SYNCHRONOUS CONVERTING METHOD>>

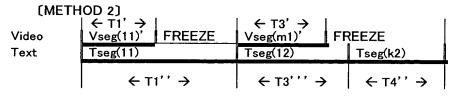


FIG. 4

```
(smil)
<head>
</head>
</body>
<seq>
                                                    <par>
                                                                        oar/

// cvideo id="vseg1" src="v1.mpg" clip-begin="10s" clip-end="20s"/>
// caudio id="aseg1" src="a1.mpg" clip-begin="40s" clip-end="50s"/>
// ctext id="tseg1" dur="10s" src="tx1.html"/>
// clip-end="50s"/>
// clip-end="50s"/
// clip-end="50s"/>
// clip-end="50s"/>
// clip-end="50s"/
// c
                                                  </par>
                                            ar/

<video id="vseg2" src="v2.mpg" clip-begin="0s" clip-end="10s"/>

<text id="tseg2" dur="10s" src=tx2.html"/>
                                                                                                                            </par>
                                                                                                                          <seq>
                                                                         </par>
                                                                             Sequence of the sequence of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -4
                                                    </par>
                           </seq>
 </body>
```

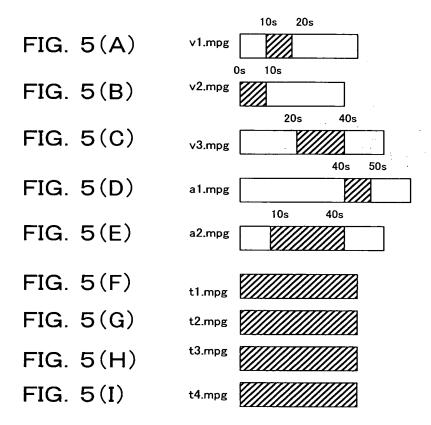


FIG. 6

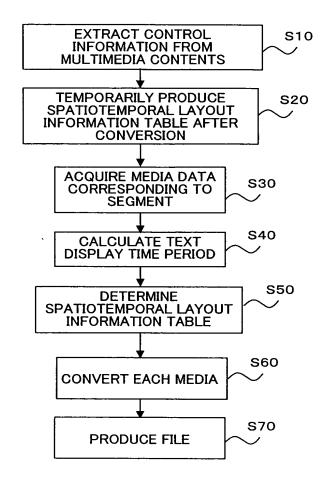


FIG. 7(A)

OUTPUT FILE FORMAT INFORMATION

ATTRIBUTE	VALUE
FILE FORMAT	3GPP TS.26.234 V.5.1.0

FIG. 7(B)

OUTPUT PRESENTATION FORM INFORMATION

ATTRIBUTE	VALUE
PRESENTATION FORM	[METHOD 1-1] [METHOD 1-2] [METHOD 1-3] [METHOD 2]

FIG. 7(C)

FIG. 7(F)

VIDEO RENDERING REGION TRANSITION ORDER INFORMATION

TRANSITION ORDER	RENDERING REGION ID
_1	VRegionID1
2	VRegionID2
3	VRegionID3
4	VRegionID4
	• • •

VIDEO DISPLAY FORM INFORMATION

ATTRIBUTE	VALUE
ENCODING METHOD	MPEG-4 Video SP@L0
FRAME RATE	MAXIMUM OF 15 fps
BIT RATE	MAXIMUM OF 64 kbps

FIG. 7(D)

FIG. 7(G)

TEXT RENDERING REGION TRANSITION ORDER INFORMATION

TRANSITION ORDER	RENDERING REGION ID		
1	TRegionID1		
2	TRegionID2		
3	TRegionID3		
4	TRegionID4		
	• • •		

TEXT DISPLAY FORM INFORMATION

ATTRIBUTE	VALUE
DATA TYPE	3GPP TimedText
FONT NAME	Serif
FONT SIZE	9pt
CHARACTER	1pt
SPACING	
PITCH	FIXED
ORNAMENT	SCROLL INFORMATION
METHOD	

FIG. 7(H)

SCROLL INFORMATION

CONCLE IN CHIMATION			
ATTRIBUTE	VALUE		
DIRECTION	LEFT → RIGHT		
SPEED	30pixcel/sec		

FIG. 7(E)

RENDERING REGION INFORMATION

ATTRIBUTE	VALUE
ID	VRegionID1
DISPLAY MEDIA ASSORTMENT	VIDEO
DISPLAY POSITION	(0,0)
DISPLAY REGION	176×144
MEDIA DISPLAY FORM	VIDEO DISPLAY FORM INFORMATION
ID	TRegionID1
DISPLAY MEDIA ASSORTMENT	TEXT
DISPLAY POSITION	(-12,144)
DISPLAY REGION	200×10
MEDIA DISPLAY FORM	TEXT DISPLAY FORM INFORMATION
ID	VRegionID2
•••	•••

FIG. 8(A)

VIDEO RENDERING REGION #1

segID	PLAYING START TIME	PLAYING TIME PERIOD	ENTITY	START TIME	END TIME
1	0s	10s	v1.mpg	10s	20s
2	10	10s	v2.mpg	0s	10s
3	20	20s	v3.mpg	20s	40s

FIG. 8(B)

VIDEO RENDERING REGION #n

segID	PLAYING START TIME	PLAYING TIME PERIOD	ENTITY	START TIME	END TIME
•••	•••	• • •	•••	•••	

FIG. 8(C)

AUDIO RENDERING REGION #1

segID	PLAYING START TIME	PLAYING TIME PERIOD	ENTITY	START TIME	END TIME
1	0s	10s	a1.mpg	40s	50s
2	10	30s	a2.mpg	10s	40s

FIG. 8(D)

AUDIO RENDERING REGION #m

segID	PLAYING START TIME	PLAYING TIME PERIOD	ENTITY	START TIME	END TIME
• • •	• • •	• • •	• • •	•••	•••

FIG. 8(E)

TEXT RENDERING REGION #1

segID	PLAYING START TIME	PLAYING TIME PERIOD	ENTITY	START TIME	END TIME
1	0s	10s	t1.html	-	-
2	10	10s	t2.html	_	
3	20	10s	t3.html	_	-
4	30	10s	t4.html	-	-

FIG. 8(F)

TEXT RENDERING REGION #k

segID PLAYING PLAYING ENTITY START END TIME		segio	START TIME	TIME PERIOD	ENTITY	TIME	END TIME
	ĺ	ID	PLAYING	PLAYING	ENITE (START	511D T114E

FIG. 9(A)

SPATIOTEMPORAL LAYOUT INFORMATION TABLE (METHOD 1)

RENDERING REGION ID	MEDIA ASSORTMENT	SEGMENT	PLAYING TIME	PLAYING TIME PERIOD	EFFECT INSTRUCTION INFORMATION
VRegionID1	VIDEO	Vseg#1···Vseg#s	0	TMP	REPEATED
TRegionID1	TEXT	Tseg#1···Tseg#t	0	DurOf (Tseg#1 · · · Tseg#t)	FREEZE
•••	•••	•••		•••	• • •

FIG. 9(B)

SEGMENT INFORMATION TABLE

SEGMENT ID	MEDIA ASSORTMENT	PLAYING TIME PERIOD	LOCATION OF DATA	START TIME	END TIME
Vseg#1	VIDEO	V#1_ed-v#1_st	URLv1	v#1_st	v#1_ed
•••	• • •	• • •	•••	•••	
Vseg#s	VIDEO	V#s_ed-v#s_st	URLvs	v#s_st	v#s_ed
Tseg#1	TEXT	DurOf(Tseg#1)	URLt1		
•••	•••			•••	
Tseg#t	TEXT	DurOf(Tseg#t)	URLts	_	
OTHERS	•••	• • •	•••	•••	•••

FIG. 10(A)

SPATIOTEMPORAL LAYOUT INFORMATION TABLE (METHOD 2)

RENDERING REGION ID	MEDIA ASSORTMENT	SEGMENT	PLAYING TIME	PLAYING TIME PERIOD
VRegionID1	VIDEO	Vseg#1 · · · · Vseg#s	0	DurOf(Vseg#1 · · · · Vseg#s)
TRegionID1	TEXT	Tseg#1 · · · · Tseg#s	0	DurOf(Tseg#1 · · · · Tseg#s)
OTHERS	• • •	•••		

FIG. 10(B)

SEGMENT INFORMATION TABLE

SEGMENT ID	MEDIA ASSORTMENT	PLAYING TIME PERIOD	EFFECT	LOCATION OF ENTITY	START TIME	END TIME
Vseg#1	VIDEO	Max(DurOf(Tseg#1) ,(v#1_ed-v#1_st))	FREEZE	URLv1	v#1_st	v#1_ed
• • •	•••	•••	• • • •	•••	• • •	
Vseg#s	VIDEO	Max(DurOf(Tseg#s) ,(v#s_ed-v#s_st))	FREEZE	URLvs	v#s_st	v#s_ed
Tseg#1	TEXT	Max(DurOf(Tseg#1) , (v#1_ed-v#1_st))	N/A	URLt1	_	_
	• • • •	•••	• • • •		• • • •	
Tseg#s	TEXT	Max(DurOf(Tseg#s) ,(v#s_ed-v#s_st))	N/A	URLts		-
OTHERS	•••		• • • •	•••		•••

FIG. 11

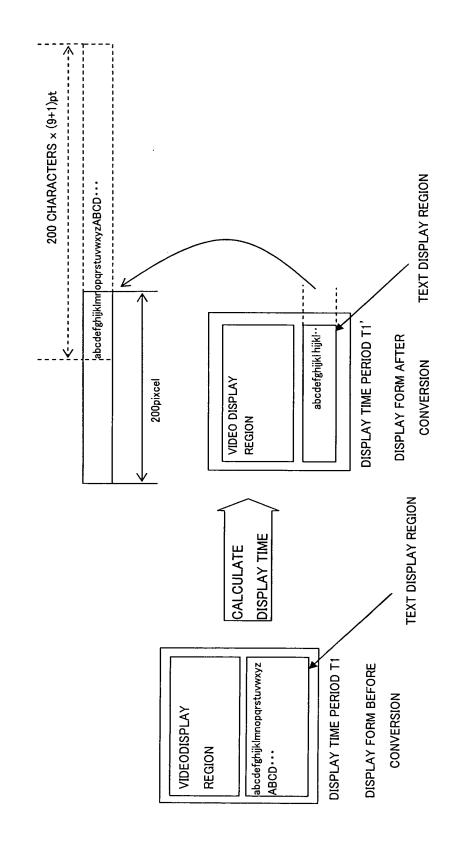


FIG. 12

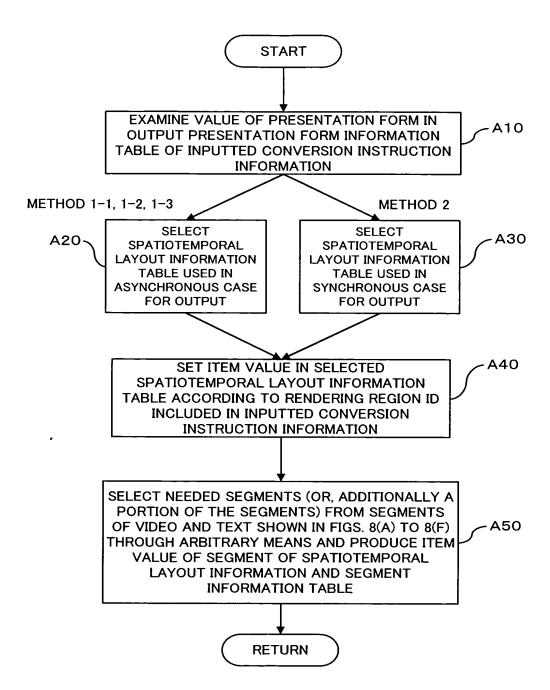


FIG. 13

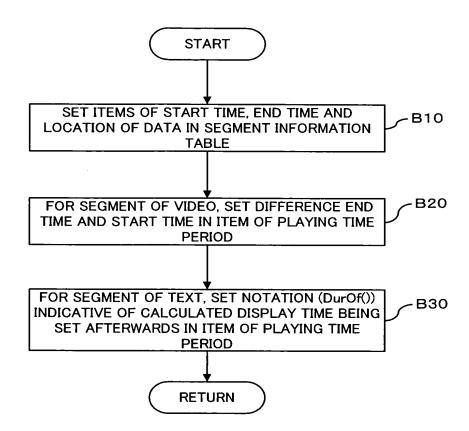


FIG. 14

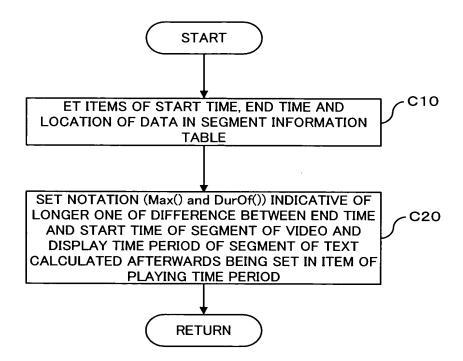


FIG. 15

